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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/679,323	10/07/2003	Masahiro Inoue	Q77822	2674
23373 SUGHRUE MI	7590 07/16/2007 ION PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			WEST, LEWIS G	
	SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER
			2618	
			MAIL DATE	DELIVERY MODE
			07/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	
Office Action Summary		10/679,323	INOUE, MASAHIRO	
		Examiner	Art Unit	
		Lewis G. West	2618	
Period fo	The MAILING DATE of this communication apports.	pears on the cover sheet w	ith the correspondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period ire to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI: 136(a). In no event, however, may a will apply and will expire SIX (6) MONe, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1)	Responsive to communication(s) filed on 25 N	1av 2007.		
	This action is FINAL . 2b) This action is non-final.			
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.□). 11, 453 O.G. 213.	
Dispositi	ion of Claims			
4)⊠	Claim(s) <u>1-8</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1-8</u> is/are rejected.			
	Claim(s) is/are objected to.			
8)	Claim(s) are subject to restriction and/o	or election requirement.		
Applicati	ion Papers			
9)	The specification is objected to by the Examine	er.		
10)⊠	The drawing(s) filed on 25 May 2007 is/are: a)	☑ accepted or b)☐ object	cted to by the Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
_	Replacement drawing sheet(s) including the correct		• • •	
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attached	d Office Action or form PTO-152.	
Priority ι	ınder 35 U.S.C. § 119			
_	Acknowledgment is made of a claim for foreign ⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. §	} 119(a)-(d) or (f).	
	1. Certified copies of the priority document			
	2. Certified copies of the priority document		••	
	3. Copies of the certified copies of the prio		received in this National Stage	
* 0	application from the International Burea	, , , , , , , , , , , , , , , , , , , ,	and the d	
3	See the attached detailed Office action for a list	or the certified copies not	received.	
Attachmen				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
	e of Draπsperson's Patent Drawing Review (P1O-948) mation Disclosure Statement(s) (PTO/SB/08)		nformal Patent Application	
	r No(s)/Mail Date	6) 🔲 Other:		

Response to Arguments

Applicant's arguments filed May 25, 2007 have been fully considered but they are not persuasive. First, there are no rejections under 35 USC 102(b), therefore these are moot and irrelevant. When view in terms of 35 USC 103(a) the arguments are still unpersuasive, because as previously explained, the type of the device does not affect the adhesive connection which is the relevant portion of the claim, any type of device could be adhered using the claimed adhesive and it would make no difference. This does, contradictory to applicant's assertion, consider the invention as a whole, as the rejection, which is under 103, not 102, considers what one of ordinary skill in the art at the time of the invention would have taken into consideration in viewing the prior art to carry out the adhesion.

Further there is clearly a protruding portion in Fisher's Figure 4, which is clearly shown and outlined by the dotted line portion, and there is adhesive only on the circumferential portion. So this argument is also unpersuasive.

Applicant's arguments having been fully addressed, this action is made final and prosecution of this application is now closed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (US 4,931,805).

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Regarding claim 2, Fisher discloses a Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material comprising: an antenna (15) for communicating with roadside radio equipment (see col. 2 lines 10-13, cellular communications would involve communicating with a base station radio equipment, which could be roadside, and as the location of the equipment is merely an intended use and as no roadside equipment is positively claimed, the limitation is met by the art); a housing (outside engaging portion 13) in which only said antenna is housed (Col. 2 lines 35-47); and an adhesive material (in the context of this claim, both the silicon gel adhesive 34 and the double sided tape adhesive 32, or the combination of the two, read on this limitation) having a first surface affixed to said housing and a second surface for affixing to a vehicle window (Col. 2 lines 48-67), wherein: a protruding portion engaged with said adhesive material is disposed on said housing. (see Figure 4, wherein the silicon adhesive is engaged with a protruding portion of the device to be mounted by being applied to channel 30) wherein said antenna, said housing, and said adhesive material constitute said DSRC. While a device specifically conforming to DSRC protocols is not expressly disclosed, Fisher discloses the claimed physical structure otherwise. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use DSRC in order to conform to an existing protocol to expand the interoperability of the device.

Regarding claim 8, Fisher discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, wherein only a circumferential portion of the protruding portion is in engaged with the adhesive, (Figure 4).

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Claims 1, 3-5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (US 4,931,805) in view of Baratono (US 6,549,793).

Regarding claim 1, Fisher discloses a Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material comprising: an antenna (15) and a radio portion a data processing portion (cellular phone) for communicating with roadside radio equipment (see col. 2 lines 10-13, cellular communications would involve communicating with a base station radio equipment, which could be roadside, and as the location of the equipment is merely an intended use and as no roadside equipment is positively claimed, the limitation is met by the art) a housing (outside engaging portion 13) in which at least antenna is housed (Col. 2 lines 35-47); and an adhesive material (in the context of this claim, both the silicon gel adhesive 34 and the double sided tape adhesive 32, or the combination of the two, read on this limitation) having a first surface affixed to said housing and a second surface for affixing to a vehicle window (Col. 2) lines 48-67), wherein: a protruding portion engaged with said adhesive material is disposed on said housing. (see Figure 4, wherein the silicon adhesive and tape are engaged with a protruding portion of the device to be mounted by being applied to channel 30) wherein said antenna and radio portion, said data processing portion and said adhesive material constitute said DSRC onboard unit, but does not expressly disclose that the said radio portion, and said data processing portion may be mounted in the attached housing with the antenna. While a device specifically conforming to DSRC protocols is not expressly disclosed, Fisher discloses the claimed physical structure otherwise. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use DSRC in order to conform to an existing protocol to expand the interoperability of the device.

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Baratono discloses an adhesive mounted on-board communication device including an antenna, a radio portion and a data processing portion for processing received data from the radio portion wherein the radio portion is mounted in the same housing with the antenna. (Col. 2 lines 50-55). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include the radio and processing portions in the mounted device, as is suggested in Baratono (Col. 4 lines 24-32) that all communications circuitry, may be included in the same housing or certain portions may be placed elsewhere in the vehicle. Therefore it would have been reasonable to use the advantages of either situation, while the structure in Fisher would provide for more possibilities in antenna placement, it would also have been apparent to one of ordinary skill in the art that combining all circuitry in one device would provide for easier manufacturing.

Regarding claim 3, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, wherein: said protruding portion is fitted into an aperture formed on said adhesive material. (See Fisher, Figure 4, wherein the adhesive layer, which includes the silicon and tape, form an aperture within which a protruding portion of the housing resides)

Regarding claim 4, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, wherein: a height of said protruding portion is less than a thickness of said adhesive material. (See Fisher, Figure 4, wherein the adhesive layer, which includes the silicon and tape, form an aperture within which a protruding portion of the housing resides, and this protruding portion is narrower in thickness than the height of the silicon gel adhesive)

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Regarding claim 5, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, wherein: a leading end surface of said protruding portion is a flat surface. (See Figure 4 of Fisher, the portion of the protrusion adhered to the double sided tape is flat.)

Regarding claim 7, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, wherein only a circumferential portion of the protruding portion is in engaged with the adhesive, (Figure 4).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (US 4,931,805) in view of Baratono (US 6,549,793) and further in view of Wunderlich (US 4,931,806).

Regarding claim 6, the combination of Fisher and Baratono discloses the Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to claim 1, but does not address how antenna adjustments are made. Wunderlich discloses a communication with an antenna in the adhesively mountable section wherein the antenna characteristics are matched by adjusting a shape of said antenna. (Col. 6 lines 5-17) Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to adjust the antenna characteristics by changing the shape, as the nature of antennas dictates that size and shape determine their characteristics, and by changing the shape to improve these characteristics may reduce loss and unwanted radiation at the device as well as improving the received signal.

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(See Wunderlich col. 5 lines 12-17) and Wunderlich further expresses that it incorporates the structure of the Fisher reference (see col. 3 lines 26-41)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis G. West whose telephone number is 571-272-7859. The examiner can normally be reached on Monday-Friday 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lewis G. West Primary Examiner Art Unit 2618